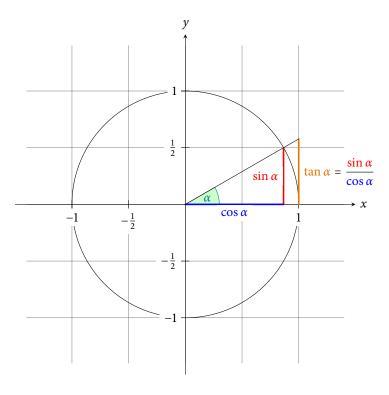
1 A TRIGONOMETRY EXAMPLE



The angle α is 30° in the example ($\pi/6$ in radians). The sine of α , which is the height of the red line, is

$$\sin\alpha=\frac{1}{2}.$$

By the Theorem of Pythagoras we have $\cos^2 \alpha + \sin^2 \alpha = 1$. Thus the length of the blue line, which is the cosine of α , must be

$$\cos\alpha=\sqrt{1-\frac{1}{4}}=\frac{1}{2}\sqrt{3}.$$

This shows that $\tan \alpha$, which is the height of the orange line, is

$$\tan\alpha = \frac{\sin\alpha}{\cos\alpha} = \frac{1}{\sqrt{3}}.$$

2 PETRI-NETS

